

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>SMWFP6134076</b>	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. <b>PCT/IB 03/01458</b>	International filing date (day/month/year) <b>11/03/2003</b>	(Earliest) Priority Date (day/month/year) <b>11/03/2002</b>
Applicant <b>PHILOGEN S R L</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

## 1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing:



contained in the international application in written form.



filed together with the international application in computer readable form.



furnished subsequently to this Authority in written form.



furnished subsequently to this Authority in computer readable form.



the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.



the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☒ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

**ANTIBODIES DERIVED FROM ANTI ED-B L19 AND TARGETING TUMOR VASCULATURE**

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

as suggested by the applicant.



because the applicant failed to suggest a figure.



because this figure better characterizes the invention.



None of the figures.

# INTERNATIONAL SEARCH REPORT

International Application No

PCT 03/01458

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07K16/46 C07K16/18 A61K51/10 G01N33/68 C12N1/21  
C12N15/13 A61K39/395 A61P9/00 A61P35/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

BIOSIS, EPO-Internal, WPI Data, PAJ, CHEM ABS Data, MEDLINE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 99 58570 A (EIDGENOSSISCHE TECHNISCHE HOCHSCHULE ZURICH, SWITZ.) 18 November 1999 (1999-11-18) claims 1-27	1-9, 13-26
Y	EP 1 130 099 A (CRUCCELL HOLLAND B V) 5 September 2001 (2001-09-05) claims 1-44	1-4, 9-26
Y	WO 94 09817 A (CITY OF HOPE) 11 May 1994 (1994-05-11) claims 1-16; figure 2; examples 1,2	1,5-8
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*&\* document member of the same patent family

Date of the actual completion of the international search

27 August 2003

Date of mailing of the international search report

11/09/2003

Name and mailing address of the ISA

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Authorized officer

Le Flao, K

## INTERNATIONAL SEARCH REPORT

International Application No

PCT 03/01458

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	LI ERQIU ET AL: "Mammalian cell expression of dimeric small immune proteins (SIP)." PROTEIN ENGINEERING, vol. 10, no. 6, 1997, pages 731-736, XP002252049 ISSN: 0269-2139 cited in the application abstract; figures 1,2 ---	1,5-8
Y	WO 01 62800 A (EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZURICH, SWITZ.) 30 August 2001 (2001-08-30) page 4, line 5 -page 5, line 15; examples 2-7; table 1 claims 1-34 ---	1,10-12
A	BATISTA F D ET AL: "The two membrane isoforms of human IgE assemble into functionally distinct B cell antigen receptors." THE JOURNAL OF EXPERIMENTAL MEDICINE. UNITED STATES 1 DEC 1996, vol. 184, no. 6, 1 December 1996 (1996-12-01), pages 2197-2205, XP002252050 ISSN: 0022-1007 cited in the application the whole document ---	1-26
A	PINI A ET AL: "Design and use of a phage display library. Human antibodies with subnanomolar affinity against a marker of angiogenesis eluted from a two-dimensional gel" JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, BALTIMORE, MD, US, vol. 273, no. 34, 21 August 1998 (1998-08-21), pages 21769-21776, XP002124781 ISSN: 0021-9258 cited in the application page 21774, left-hand column, line 7 -page 21775, left-hand column, line 32; table II ---	1-26
E	WO 03 055917 A (SCHERING AKTIENGESELLSCHAFT, GERMANY) 10 July 2003 (2003-07-10) page 4, line 28 -page 5, line 2 page 17, line 8 -page 19, line 6 claims 1-21; table 1 ---	1-26
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International Application No

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## C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	<p>BORSI LAURA ET AL: "Selective targeting of tumoral vasculature: comparison of different formats of an antibody (L19) to the ED-B domain of fibronectin." INTERNATIONAL JOURNAL OF CANCER. JOURNAL INTERNATIONAL DU CANCER. UNITED STATES 1 NOV 2002, vol. 102, no. 1, 1 November 2002 (2002-11-01), pages 75-85, XP002252051  ISSN: 0020-7136  the whole document</p>	1-26

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/IB 03/01458

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
Although claims 18,19 and 21 could comprise a diagnostic method practised on the human/animal body or could be directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT 03/01458

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9958570	A	18-11-1999	US 2003045681 A1	06-03-2003
			AU 759207 B2	10-04-2003
			AU 4039899 A	29-11-1999
			BG 105030 A	28-09-2001
			BR 9910394 A	09-01-2001
			CA 2333833 A1	18-11-1999
			CN 1303393 T	11-07-2001
			EE 200000802 A	17-06-2002
			WO 9958570 A2	18-11-1999
			EP 1084145 A2	21-03-2001
			HU 0102992 A2	28-11-2001
			JP 2002514405 T	21-05-2002
			NO 20005694 A	10-01-2001
			NZ 508600 A	28-03-2003
			PL 345845 A1	14-01-2002
			SK 16792000 A3	10-05-2001
			TR 200003317 T2	23-07-2001
EP 1130099	A	05-09-2001	EP 1130099 A1	05-09-2001
			AU 4126401 A	03-09-2001
			CA 2401367 A1	30-08-2001
			WO 0162930 A1	30-08-2001
			NO 20024032 A	25-10-2002
WO 9409817	A	11-05-1994	CA 2126967 A1	11-05-1994
			WO 9409817 A1	11-05-1994
			DE 69232604 D1	13-06-2002
			DE 69232604 T2	07-11-2002
			EP 0627932 A1	14-12-1994
			US 5837821 A	17-11-1998
WO 0162800	A	30-08-2001	AU 4243201 A	03-09-2001
			CA 2400622 A1	30-08-2001
			WO 0162800 A1	30-08-2001
			EP 1259548 A1	27-11-2002
WO 03055917	A	10-07-2003	WO 03055917 A2	10-07-2003